CLAIMS

- 1. A grid array signal conducting arrangement comprising at least one differential grid array
- 2 conductor pair and at least one non-differential grid array conductor pair, the at least one differential
- 3 grid array conductor pair having portions thereof which are more closely spaced in comparison to a
- 4 spacing of corresponding components in the at least one non-differential grid array conductor pair.
- 2. A grid array signal conducting arrangement as claimed in claim 1, where the grid array
- 2 signal conducting arrangement is provided in a grid array connector provided on at least one of a
- 3 receiving substrate and a semiconductor package.
- 3. A grid array signal conducting arrangement as claimed in claim 1, where the grid array
- signal conducting arrangement conducts at least one differential pair signal.
- 4. A grid array signal conducting arrangement as claimed in claim 3, where the grid array
- 2 signal conducting arrangement provides at least one of greater coupling and greater common noise
- between the differential grid array conductor pair than the non-differential grid array conductor pair.
- 1 5. A grid array signal conducting arrangement comprising:
- at least one differential grid array conductor pair and at least one non-differential grid array
- 3 conductor pair; and
- 4 means for providing noise rejection capability in the grid array signal conducting
- 5 arrangement.

- 6. A grid array signal conducting arrangement as claimed in claim 5, where the grid array
- 2 signal conducting arrangement is provided in a grid array connector provided on at least one of a
- 3 receiving substrate and a semiconductor package.
- 7. A grid array signal conducting arrangement as claimed in claim 5, where the grid array
- 2 signal conducting arrangement conducts at least one differential pair signal.
- 8. A grid array signal conducting arrangement as claimed in claim 7, where the grid array
- 2 signal conducting arrangement provides at least one of greater coupling and greater common noise
- 3 between the differential grid array conductor pair than the non-differential grid array conductor pair
 - 9. An electrical component comprising:
- at least one of a receiving substrate and a semiconductor package; and
- a grid array signal conducting arrangement comprising at least one differential grid array
- 4 conductor pair and at least one non-differential grid array conductor pair, the at least one differential
- 5 grid array conductor pair having portions thereof which are more closely spaced in comparison to a
- spacing of corresponding components in the at least one non-differential grid array conductor pair.
- 10. An electrical component as claimed in claim 9, where the grid array signal conducting
- 2 arrangement conducts at least one differential pair signal.
- 11. An electrical component as claimed in claim 10, where the grid array signal conducting
- 2 arrangement provides at least one of greater coupling and greater common noise between the

- differential grid array conductor pair than the non-differential grid array conductor pair.
- 1 12. A mounted electrical component arrangement comprising:
- 2 a plurality of electrical components; and
- a grid array signal conducting arrangement comprising at least one differential grid array
- 4 conductor pair and at least one non-differential grid array conductor pair, the at least one differential
- 5 grid array conductor pair having portions thereof which are more closely spaced in comparison to a
- 6 spacing of corresponding components in the at least one non-differential grid array conductor pair.
- 1 13. A mounted electrical component arrangement as claimed in claim 12, where the grid array
- 2 signal conducting arrangement is provided in a grid array connector provided on at least one of a
- 3 receiving substrate and a semiconductor package.
- 1 14. A mounted electrical component arrangement as claimed in claim 12, where the grid array
- 2 signal conducting arrangement conducts at least one differential pair signal.
- 1 15. A mounted electrical component arrangement as claimed in claim 14, where the grid array
- 2 signal conducting arrangement provides at least one of greater coupling and greater common noise
- 3 between the differential grid array conductor pair than the non-differential grid array conductor pa
- 1 16. A method of increasing noise rejection capability of a grid array signal conducting
- 2 arrangement comprising:
- 3 orientating electrical conductive parts in the grid array signal conducting arrangement that

- 4 conduct differential signals so as coupling distance between at least one pair of differential signals
- 5 is less than coupling distance between at least one pair of non-differential signals; and
- 6 conducting at least one pair of differential signals through the electrical conductive parts.
- 1 17. A method as claimed in claim 16, where the grid array signal conducting arrangement is
- 2 provided in a grid array connector provided on at least one of a receiving substrate and a
- 3 semiconductor package.